



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-10-31-01 Date: 02-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Source of Sample : Soladevanahalli
Date of Receipt : 31-10-22
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 31-10-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-10-31-01

Date: 02-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2022-10-31-01 Date: 02-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Source of Sample : Soladevanahalli
Date of Receipt : 31-10-22
Type of Mix : GSB (Granular Sub Base)
Date of Test : 31-10-22
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
AE 75	0	0	0.0	100.0	100
53	422	422	4.2	95.8	80-100
26.5	2144	2566	25.7	74.3	55-90
9.5	1322	3888	38.9	61.1	35-65
4.75	1975	5863	58.6	41.4	25-50
2.36	2458	8321	83.2	16.8	10-20
0.85	1044	9365	93.7	6.3	2-10
0.425	211	9576	95.8	4.2	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	22.70%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-10-31-01 Date: 03-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 31-10-22
Sample Type : JSW 53 Grade
Source of Sample : Soladevanahalli
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method,
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6
Date of test : 01-11-22
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	-
2	Finess by Air permeablity method (m ² /kg,Min)	285.4	225m ² /kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-10-31-01 Date: 29-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 31-10-22
Sample Type : JSW 53 Grade
Source of Sample : Soladevanahalli
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 01-11-22
Environmental Conditions during test : Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-03-01 Date: 08/11/2022
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 03-11-22
Customer ID : Drain Bottom Raft- Muthugadahalli
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 08/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft- Muthugadahalli	M20	01/11/2022	08/11/2022	150.97 X 151.96 X 151.08	22941	8.492	377.5	16.5	16.3
2	Drain Bottom Raft- Muthugadahalli	M20	01/11/2022	08/11/2022	151.31 X 151.51 X 150.98	22926	8.625	347.3	15.2	
3	Drain Bottom Raft- Muthugadahalli	M20	01/11/2022	08/11/2022	150.59 X 149.54 X 149.34	22520	9.025	390.7	17.3	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-2022-11-03-01
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderaahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabie College Post, Bangalore-560043
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 03-11-22
Customer ID : Drain Bottom Raft- Muthugadahalli
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 29/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft- Muthugadahalli	M20	01/11/2022	29/11/2022	149.32 X 149.89 X 149.46	22381	8.594	533.4	23.8	23.0
2	Drain Bottom Raft- Muthugadahalli	M20	01/11/2022	29/11/2022	150.61 X 151.54 X 150.94	22824	8.159	503.2	22.0	
3	Drain Bottom Raft- Muthugadahalli	M20	01/11/2022	29/11/2022	151.34 X 151.02 X 149.33	22856	8.815	528.7	23.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-07-01 Date: 11/11/2022
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 07-11-22
Customer ID : Drain Side Wall- Muthugadahalli
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 11/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall- Muthugadahalli	M20	04/11/2022	11/11/2022	149.18 X 149.88 X 151.66	22359	8.163	389.6	17.4	17.4
2	Drain Side Wall- Muthugadahalli	M20	04/11/2022	11/11/2022	150.16 X 151.85 X 150.88	22803	8.186	425.6	18.7	
3	Drain Side Wall- Muthugadahalli	M20	04/11/2022	11/11/2022	150.80 X 150.93 X 149.95	22761	8.620	369.9	16.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-07-01 Date: 02/12/2022
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 07-11-22
Customer ID : Drain Side Wall- Muthugadahalli
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 02/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall- Muthugadahalli	M20	04/11/2022	02/12/2022	151.39 X 149.41 X 149.90	22618	8.737	531.2	23.5	23.0
2	Drain Side Wall- Muthugadahalli	M20	04/11/2022	02/12/2022	151.83 X 151.52 X 149.22	23006	8.409	513.1	22.3	
3	Drain Side Wall- Muthugadahalli	M20	04/11/2022	02/12/2022	150.86 X 149.50 X 149.19	22554	8.623	520.5	23.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2022-11-07-01 Date: 11-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Source of Sample : Achit Nagar Soladevanahalli
Date of Receipt : 07-11-22
Sample Type /Size : CC Kerb Stone/ 450*165*400mm
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test : 07/11/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	AE	100.01	100.51	1.890	7854	132.7	16.9	16.9	21.1
2	B	100.03	100.49	1.895	7857	140.7	17.9	17.9	22.4
3	C	100.01	100.50	1.789	7854	132.5	16.9	16.9	21.1

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-11-07-01 Date: 09-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 07-11-22
Sample Type : Fine Aggregate.M sand
Source of Sample : Kumbarahalli
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 07-11-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	105	127	12.7	87.3	60-95	75-100	85-100	95-100
4	1.18 mm	205	332	33.2	66.8	30-70	55-90	75-100	90-100
5	600 micron	179	511	51.1	48.9	15-34	35-59	60-79	80-100
6	300 micron	225	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	155	891	89.1	10.9	0-10	0-10	0-10	0-15
8	Pan	109	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-11-07-01

Date: 09-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.78	—
2	Specific Gravity	2.52	—
3	Material finer than 75 micron(%)	10.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

verified by me

Asst. Executive Engineer
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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2022-11-07-01 Date: 09-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at
Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama
Panchayathi Limits and Surrounding Areas of Yelahanka Assembly
Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa
Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Source of Sample : Kumbarahalli
Date of Receipt : 07-11-22
Type of Mix : GSB (Granular Sub Base)
Date of Test : 07-11-22
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	725	725	7.3	92.8	80-100
26.5	2144	2869	28.7	71.3	55-90
9.5	1347	4216	42.2	57.8	35-65
4.75	1958	6174	61.7	38.3	25-50
2.36	1995	8169	81.7	18.3	10-20
0.85	1248	9417	94.2	5.8	2-10
0.425	302	9719	97.2	2.8	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.80%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-11-07-01 Date: 10-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at
Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama
Panchayathi Limits and Surrounding Areas of Yelahanka Assembly
Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa
Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 07-11-22
Sample Type : 40mm down size coarse aggregate
Source of Sample : Kumbarahalli
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 07-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	5402	5580	37.2	62.8	30-70
4	10 mm	4598	10178	67.9	32.1	10-35
5	4.75 mm	4498	14676	97.8	2.2	0-5
6	Pan	324	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-11-07-01

Date: 10-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.42	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.25	—

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-11-07-01 Date: 10-11-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabie College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Source of Sample : Kumbarahalli
Date of Receipt : 07-11-22
Sample Type : JSW 53 Grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 08-11-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.72	—
2	Finess by Air permeablity method (m ² /kg,Min)	289.7	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-11-07-01 Date: 06-12-22
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Source of Sample : Kumbarahalli
Date of Receipt : 07-11-22
Sample Type : JSW 53 Grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 08-11-22
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	54.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

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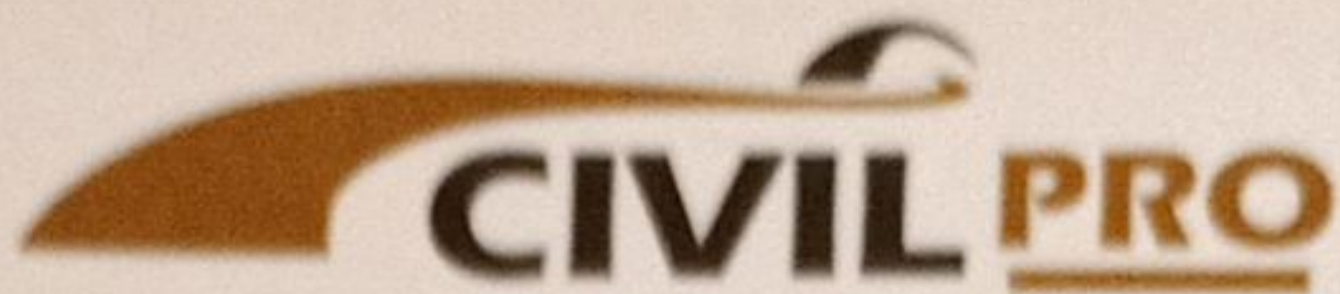


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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-12-01 Date: 16/11/2022

Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23

Date of Receipt : 12-11-22

Customer ID : Cement Concrete Pavement-Muthugadahalli Linganaahalli Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CI.5

Date of test : 16/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Muthugadahalli Linganaahalli Road	M30	09/11/2022	16/11/2022	149.54 X 149.39 X 149.57	22341	8.810	516.4	23.1	23.8
2	Cement Concrete Pavement-Muthugadahalli Linganaahalli Road	M30	09/11/2022	16/11/2022	151.98 X 149.20 X 150.88	22675	8.510	569.1	25.1	
3	Cement Concrete Pavement-Muthugadahalli Linganaahalli Road	M30	09/11/2022	16/11/2022	149.56 X 151.20 X 151.54	22613	8.331	521.7	23.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-12-01 Date: 07/12/2022
Project Name : PACKAGE No-05 Development of Roads and Drains at Kasagattapura, Vaderahalli, Shivakote, Kachohalli Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants
Agency : Sri. K Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference : EE(Project)/Ynk Zone/WO/020/2022-23
Date of Receipt : 12-11-22
Customer ID : Cement Concrete Pavement-Muthugadahalli Linganhalli Road
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Muthugadahalli Linganhalli Road	M30	09/11/2022	07/12/2022	151.22 X 149.72 X 149.97	22640	8.336	760.7	33.6	32.4
2	Cement Concrete Pavement-Muthugadahalli Linganhalli Road	M30	09/11/2022	07/12/2022	151.74 X 151.78 X 149.94	23032	8.502	739.3	32.1	
3	Cement Concrete Pavement-Muthugadahalli Linganhalli Road	M30	09/11/2022	07/12/2022	149.51 X 149.96 X 149.16	22421	8.392	708.5	31.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-12-01 Date: 17/11/2022
Project Name : PCKXGE No-05 Development of Roads and Drains at Kasagattapure, Vadersahalli, Shivakote, Kachiballi Grama Panchayathi Limits and Surrounding Areas of Yelahanka Assembly Constituency Under Amrutha Nagarodhana Grants
Agency : Sri. K. Gopireddy, No.03, 1st Cross, 1st Main, Ramachandrapur Layout, Veeranapalya, Arabie College Post, Bangalore-560045
Customer's Reference : EE/Project/Yrk Zone/WO/020/2022-23
Date of Receipt : 12-11-22
Customer ID : Cement Concrete Pavement-Muthugadahalli Ramesh House Road
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CI.5
Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement-Muthugadahalli Ramesh House Road	M30	10/11/2022	17/11/2022	149.15 X 151.65 X 150.36	22619	8.816	531.6	23.5	23.4
2	Cement Concrete Pavement-Muthugadahalli Ramesh House Road	M30	10/11/2022	17/11/2022	151.75 X 151.37 X 150.68	22971	8.123	549.0	23.9	
3	Cement Concrete Pavement-Muthugadahalli Ramesh House Road	M30	10/11/2022	17/11/2022	150.67 X 150.73 X 151.04	22710	8.191	517.8	22.8	

* The results obtained are satisfactory as per standard requirements.

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